

Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
JACKSON COUNTY --- CARBONDALE [37.72, -89.22]				
	06/09/10 05:30 CST		0	Lightning
	06/09/10 05:30 CST	1	0	Source: Amateur Radio
A 32-year-old woman was struck by lightning in the parking lot of a Wal-Mart store. The main injury was to her leg, which may have sustained muscle damage. She was knocked to the ground when lightning struck the shopping cart she was holding. She lost some hair.				
Thunderstorms occurred along a cold front as it moved southeast across southern Illinois.				
FRANKLIN COUNTY --- 2.0 S SESSER [38.07, -89.05]				
	06/14/10 16:45 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/14/10 16:45 CST		0	Source: Storm Chaser
A mobile home on Illinois Route 148 lost parts of its roof.				
An isolated damaging wind event occurred on the south end of a large mesoscale convective system that extended into west central Indiana.				
JOHNSON COUNTY --- CYPRESS [37.37, -89.02], WEST VIENNA [37.43, -88.97]				
	06/15/10 14:00 CST		3K	Thunderstorm Wind (EG 52 kt)
	06/15/10 14:10 CST		0	Source: Trained Spotter
Several trees were blown down near Route 37.				
PERRY COUNTY --- PINCKNEYVILLE [38.08, -89.38]				
	06/15/10 14:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/15/10 14:00 CST		0	Source: Trained Spotter
Large tree limbs were down on a house. Winds were estimated near 60 mph at Highway 13 and 154 on the west side of town.				
JOHNSON COUNTY --- 2.5 SW WEST VIENNA [37.40, -89.00]				
	06/15/10 14:08 CST		0	Funnel Cloud
	06/15/10 14:09 CST		0	Source: Public
A photograph of an apparent funnel cloud was taken near West Vienna.				
JOHNSON COUNTY --- WEST VIENNA [37.43, -88.97]				
	06/15/10 14:10 CST		0	Hail (1.00 in)
	06/15/10 14:10 CST		0	Source: Public
JEFFERSON COUNTY --- WOODLAWN [38.33, -89.03], MT VERNON [38.32, -88.90]				
	06/15/10 14:15 CST		30K	Thunderstorm Wind (EG 56 kt)
	06/15/10 14:30 CST		0	Source: Newspaper
In Mount Vernon, numerous tree limbs and wires were blown down, along with one power pole. Streets were blocked by downed limbs and wires. Some businesses received minor damage, such as ripped awnings and fallen gutters. An antenna with its 30-foot tower was brought down at a city residence. A fence was blown over. Elsewhere in the county, a couple of trees were blown down in Woodlawn and Nason.				
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]				
	06/15/10 14:30 CST		0	Hail (0.75 in)
	06/15/10 14:30 CST		0	Source: Public
PERRY COUNTY --- 0.5 NE HOLDEN [38.06, -89.24], SUNFIELD [38.07, -89.23]				
	06/15/10 14:30 CST		20K	Thunderstorm Wind (MG 57 kt)
	06/15/10 14:30 CST		0	Source: Law Enforcement
A wind gust to 66 mph was measured on U.S. Highway 51 north of DuQuoin. At Sunfield, numerous trees and power lines were blown down near City Lake. A few trees and power lines were blown down on the north side of DuQuoin. There were 1,800 families without power in Perry County at the peak of the power outages.				

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SALINE COUNTY --- 3.0 SW HARRISBURG [37.70, -88.59]				
	06/15/10 14:45 CST		0	Hail (1.00 in)
	06/15/10 14:45 CST		0	Source: Emergency Manager
SALINE COUNTY --- 4.0 NW GALATIA [37.87, -88.67]				
	06/15/10 14:45 CST		3K	Thunderstorm Wind (EG 52 kt)
	06/15/10 14:45 CST		0	Source: Emergency Manager
Trees were blown down.				
JOHNSON COUNTY --- 1.8 SSW GANNTOWN [37.34, -88.79]				
	06/15/10 14:53 CST		0	Hail (0.88 in)
	06/15/10 14:53 CST		0	Source: Emergency Manager
Nickel-size hail was reported at mile marker 23 on Interstate 24 in the extreme southeast part of the county.				
WAYNE COUNTY --- 3.0 W GEFF [38.45, -88.46]				
	06/15/10 15:03 CST		10K	Thunderstorm Wind (EG 56 kt)
	06/15/10 15:03 CST		0	Source: Newspaper
A garage was flattened. Tree limbs and power lines were down in the area.				
POPE COUNTY --- GOLCONDA [37.37, -88.48]				
	06/15/10 15:22 CST		5K	Thunderstorm Wind (EG 52 kt)
	06/15/10 15:22 CST		0	Source: Emergency Manager
A five-foot diameter tree was blown over. Other large tree limbs were blown down, some on power lines.				
WHITE COUNTY --- CARMi [38.08, -88.17], 2.0 S EPWORTH [38.04, -88.10]				
	06/15/10 15:23 CST		50K	Thunderstorm Wind (EG 52 kt)
	06/15/10 15:26 CST		0	Source: Newspaper
In Carmi, three power poles and a light pole were blown down. A few trees and numerous large tree limbs were blown down. There were numerous power outages. South of Epworth, a couple of trees were down.				
EDWARDS COUNTY --- 3.0 W ALBION [38.38, -88.11], 2.0 E ALBION [38.38, -88.01]				
	06/15/10 15:25 CST		20K	Thunderstorm Wind (EG 52 kt)
	06/15/10 15:35 CST		0	Source: Newspaper
Tree limbs and utility lines were down around the county.				
MASSAC COUNTY --- METROPOLIS [37.15, -88.73], 2.6 ESE METROPOLIS [37.14, -88.69]				
	06/15/10 15:30 CST		60K	Thunderstorm Wind (EG 65 kt)
	06/15/10 15:36 CST		0	Source: Trained Spotter
In Metropolis, large tree limbs were blown down. A metal carport was blown over. A trained spotter measured a wind gust to 60 mph on the Interstate 24 bridge over the Ohio River. The most concentrated area of damage appeared to be on the north side of Metropolis, where numerous large limbs were down, some whole trees were uprooted, and sections of a large fence were blown down. On Interstate 24 at the Metropolis exit, a tractor-trailer rig hauling half of a mobile office was blown off the road. The half of the mobile office was destroyed.				
WABASH COUNTY --- MT CARMEL [38.42, -87.77]				
	06/15/10 15:50 CST		15K	Thunderstorm Wind (EG 52 kt)
	06/15/10 15:50 CST		0	Source: Trained Spotter
A trained spotter estimated a wind gust to 60 mph on the west side of town. A power line was down across a street. Tree limbs were blown down across the city, and some of them landed on power lines. Some of the limbs were three to four inches in diameter. Power was out for 12 to 24 hours in some cases. A tree limb fell on a gas line, causing a leak.				
MASSAC COUNTY --- 2.8 WSW MIDWAY [37.21, -88.68]				
	06/15/10 16:00 CST		10K	Thunderstorm Wind (EG 56 kt)
	06/15/10 16:00 CST		0	Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An old wood barn was blown down on Highway 145 a few miles north of the U.S. Highway 45 intersection.

Clusters of thunderstorms developed along a cold front as it moved east across the Mississippi Valley. As the atmosphere became very unstable due to daytime heating and hot south winds, the clusters evolved into a well-organized mesoscale convective system during the afternoon. Numerous reports of damaging winds accompanied storms within the complex as it moved southeast.

ALEXANDER COUNTY --- 0.8 SE THEBES [37.21, -89.46], 0.8 SSE THEBES [37.21, -89.46], 0.3 NE THEBES [37.22, -89.47], 0.4 SW GALE [37.25, -89.45], 0.3 SSE GALE [37.25, -89.45], 1.2 NE THEBES [37.23, -89.45]

06/18/10 09:00 CST	0	Flood (due to Heavy Rain)
06/30/10 23:59 CST	5K	Source: River/Stream Gage

Moderate flooding occurred along the Mississippi River near Thebes and Gale. Considerable flooding of cropland and low-lying woods occurred.

WABASH COUNTY --- 1.7 SSW PATTON [38.46, -87.76], 1.8 S PATTON [38.45, -87.75], 1.5 E MT CARMEL [38.42, -87.74], 1.2 ENE MT CARMEL [38.43, -87.75]

06/19/10 11:30 CST	0	Flood (due to Heavy Rain)
06/30/10 23:59 CST	10K	Source: River/Stream Gage

Minor flooding of the Wabash River occurred in the Mount Carmel area. Water flowed onto several small streets and roads. A few streets were closed. A restaurant along the river also closed. Lowland flooding caused all oil field production to cease with the exception of pumping units on substructures. Access to these was by boat only. Backwater from the Wabash River was noted on the Bon Pas river gage near Browns Illinois. Agricultural losses were fairly significant. Many river cabins became inaccessible.

WHITE COUNTY --- 0.9 NNW RISING SUN [38.01, -88.04], 0.9 E MAUNIE [38.03, -88.03], 2.2 NNE RISING SUN [38.03, -88.01], 1.4 NNE RISING SUN [38.02, -88.02], 0.2 NE RISING SUN [38.00, -88.03]

06/21/10 08:00 CST	0	Flood (due to Heavy Rain)
06/30/10 23:59 CST	4K	Source: River/Stream Gage

Minor flooding of the Wabash River occurred in White County. Low-lying fields were flooded, including some cropland.

Numerous storm complexes trained over the Midwest during the first part of June. Copious amounts of rain fell from Iowa east across central Indiana. As a result, the Mississippi and Wabash Rivers rose above flood stage in southern Illinois.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z088) UNION, (IL-Z092) ALEXANDER

06/18/10 12:00 CST	0	Heat
06/18/10 18:00 CST	0	

Temperatures rose into the lower to mid 90's during the afternoon. High humidity levels resulted in peak heat indices around 105 degrees in some areas, mainly northwest of a line from Mount Carmel to Harrisburg and Vienna. Surface high pressure over the central Appalachians and a surface low over the central Plains produced a hot and humid south wind flow.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

06/20/10 11:00 CST	0	Heat
06/23/10 19:00 CST	0	

High temperatures reached the mid to upper 90's during this four-day streak of high heat indices. High humidity produced heat indices locally around 105 degrees on some afternoons. While a couple of counties reached the 105-degree threshold for a Heat Advisory each afternoon, most reached it only once or twice. A couple counties never quite reached it. A strong upper-level ridge remained quasi-stationary from the Tennessee Valley to the southern Plains through the period of heat.

JEFFERSON COUNTY --- 1.5 WNW SHIRLEY [38.29, -88.86], 1.2 WNW SHIRLEY [38.29, -88.85]

06/27/10 20:05 CST	2K	Tornado (EF0, L: 0.27 mi , W: 50 yd)
06/27/10 20:06 CST	0	Source: Trained Spotter

A brief tornado was witnessed by a trained spotter. The tornado touched down, went up, and then briefly touched down again. Metal sheeting was torn off a horse barn and a storage barn.

JEFFERSON COUNTY --- OPDYKE [38.25, -88.78]

06/27/10 20:11 CST	2K	Thunderstorm Wind (EG 50 kt)
06/27/10 20:11 CST	0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Large tree limbs were blown down.

A squall line of thunderstorms sagged southward into southern Illinois, preceded by a gust front that produced isolated damage. The line of storms formed along a weak confluent axis. A very moist and unstable air mass and relatively steep low level lapse rates promoted an organized line of storms capable of gusty winds.

JACKSON COUNTY --- 2.8 W MURPHYSBORO [37.76, -89.38], 1.4 W MT CARBON [37.75, -89.35], 1.4 WNW MT CARBON [37.76, -89.35], 2.3 W MURPHYSBORO [37.77, -89.37]

06/28/10 04:00 CST	0	Flood (due to Heavy Rain)
06/30/10 23:59 CST	0	Source: River/Stream Gage

Minor flooding of the Big Muddy River occurred in the Murphysboro area. Some low-lying fields and parks near the river were flooded.

Minor flooding of the Big Muddy River occurred due to rises on the Mississippi River that slowed the drainage of the Big Muddy.

INDIANA, Southwest

GIBSON COUNTY --- PRINCETON [38.35, -87.57]

06/11/10 10:00 CST	3K	Thunderstorm Wind (EG 52 kt)
06/11/10 10:00 CST	0	Source: Law Enforcement

Several tree limbs were blown down.

A cluster of thunderstorms developed over the Lower Wabash Valley as daytime heating strongly destabilized the atmosphere. A mid to upper level impulse associated with the remnants of a weak closed low slowly lifted northeast out of the Ozark Plateau. Weakly diffluent upper level flow ahead of this feature contributed to storm development. Isolated strong winds occurred as precipitable water values around 2 inches were conducive to wet microbursts.

GIBSON COUNTY --- OWENSVILLE [38.27, -87.68], HAUBSTADT [38.20, -87.57]

06/14/10 17:45 CST	9K	Thunderstorm Wind (EG 52 kt)
06/14/10 17:55 CST	0	Source: Emergency Manager

A few trees were blown down around Owensville and near Haubstadt. A large healthy tree was uprooted near County Road 450 South in southwest Gibson County. The tree completely blocked the road and took down power lines, knocking out power for 8 to 10 hours.

GIBSON COUNTY --- FRANCISCO [38.33, -87.45]

06/14/10 18:00 CST	9K	Thunderstorm Wind (EG 52 kt)
06/14/10 18:00 CST	0	Source: Emergency Manager

A power pole with a transformer on it was blown down.

Isolated wind damage occurred on the south end of a well-organized mesoscale convective system that extended northeastward across the entire state of Indiana. The complex of storms propagated steadily eastward through a moist and unstable air mass.

POSEY COUNTY --- 3.0 W POSEYVILLE [38.17, -87.84]

06/15/10 15:39 CST	2K	Thunderstorm Wind (EG 50 kt)
06/15/10 15:39 CST	0	Source: Trained Spotter

Tree limbs at least six inches in diameter were down.

GIBSON COUNTY --- 4.0 W OWENSVILLE [38.27, -87.75], PRINCETON [38.35, -87.57]

06/15/10 15:45 CST	75K	Thunderstorm Wind (EG 65 kt)
06/15/10 16:00 CST	0	Source: Law Enforcement

Widespread damage occurred throughout Princeton, where two windows were blown out of the county courthouse. Numerous trees and power lines were blown down. Between 30 and 50 trees were blown down from west of Owensville to Princeton. The damage was more in pockets than continual. At a radio station on U.S. Highway 41 at State Route 64 on the west side of Princeton, a wind gust to 60 mph was measured as the power went out. Wind gusts were estimated near 70 mph after the power went out in Princeton. A trained spotter in the west part of Fort Branch measured a wind gust to 60 mph.

VANDERBURGH COUNTY --- MC CUTCHANVILLE [38.07, -87.53], EVANSVILLE [37.98, -87.55]

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	06/15/10 16:10 CST		50K	Thunderstorm Wind (EG 52 kt)
	06/15/10 16:25 CST	2	0	Source: Fire Department/Rescue

In Evansville, two people were injured when a tree fell on the bedroom, hallway, and living room of a house. Both were transported to a hospital with non life-threatening injuries. One suffered a head injury, and the other had a neck injury. Both injured people were attempting to leave the house through the front door when the tree landed on the home. They exited through the back door after being injured. The structural damage to the house was moderate to major. Elsewhere, there were numerous reports of utility lines blown down in McCutchanville. A trampoline blew in front of cars on the Lloyd Expressway in Evansville. Trained spotters estimated wind gusts near 60 mph in Evansville.

PIKE COUNTY --- PETERSBURG [38.50, -87.28], WINSLOW [38.38, -87.22]

06/15/10 16:27 EST	10K	Thunderstorm Wind (EG 52 kt)
06/15/10 16:27 EST	0	Source: Law Enforcement

Trees were blown down in Winslow and Petersburg.

SPENCER COUNTY --- ROCKPORT [37.88, -87.05]

06/15/10 16:58 CST	2K	Thunderstorm Wind (EG 52 kt)
06/15/10 16:58 CST	0	Source: Trained Spotter

Tree limbs were blown down. A trained spotter estimated sustained winds around 40 mph with peak gusts near 60 mph.

Clusters of thunderstorms developed along a cold front as it moved east across the Mississippi Valley. As the atmosphere became very unstable due to daytime heating and hot south winds, the clusters evolved into a well-organized mesoscale convective system during the afternoon. Numerous reports of damaging winds accompanied storms within the complex as it moved southeast.

PIKE COUNTY --- 0.9 NNW PETERSBURG [38.51, -87.29], 2.0 NNE PETERSBURG [38.52, -87.26], 1.7 NE PETERSBURG [38.52, -87.26], 0.7 NNW PETERSBURG [38.51, -87.28]

06/17/10 11:00 EST	0	Flood (due to Heavy Rain)
06/30/10 23:59 EST	6K	Source: River/Stream Gage

Minor flooding occurred on the White River near Petersburg. Flooding affected most bottomland fields, including some cropland. A few residents in an area known as Dodge City may have been affected if they remained. Local roads leading to the Dodge City area were flooded, and at least one was impassable. State Road 257 began to flood. Low agricultural lands and low oil fields were inundated.

GIBSON COUNTY --- 1.0 NNW HAZLETON [38.49, -87.54], 2.6 NNW HAZLETON [38.51, -87.55], 2.5 NNW HAZLETON [38.51, -87.54], 1.0 NNW HAZLETON [38.49, -87.54]

06/17/10 20:00 CST	1K	Flood (due to Heavy Rain)
06/30/10 23:59 CST	5K	Source: River/Stream Gage

Minor flooding occurred on the White River near Hazleton. Most bottomland fields were flooded, including cropland. High water affected any residents who stayed in Pottsville river cabins. A few back roads near the river were flooded, including at least one that was impassable. Low oil fields were flooded. Flood gates were installed at Hazleton. Flood waters covered the Hazleton softball field.

GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 1.0 WNW EAST MT CARMEL [38.41, -87.75], 2.6 N EAST MT CARMEL [38.44, -87.74], 2.3 N EAST MT CARMEL [38.43, -87.73]

06/19/10 11:30 CST	0	Flood (due to Heavy Rain)
06/30/10 23:59 CST	10K	Source: River/Stream Gage

Minor flooding of the Wabash River occurred in the East Mount Carmel area. Water flowed onto several small streets and roads. Lowland flooding caused all oil field production to cease with the exception of pumping units on substructures. Access to these was by boat only. Agricultural losses were fairly significant. River cabins became inaccessible.

POSEY COUNTY --- 0.6 WNW NEW HARMONY [38.13, -87.94], 1.0 NNE NEW HARMONY [38.14, -87.93], 0.8 NNE NEW HARMONY [38.14, -87.92], 0.3 WNW NEW HARMONY [38.13, -87.94]

06/21/10 12:00 CST	0	Flood (due to Heavy Rain)
06/30/10 23:59 CST	3K	Source: River/Stream Gage

Minor flooding occurred on the Wabash River near New Harmony. Some oil well production ceased. Low-lying fields were flooded, including some cropland.

Numerous storm complexes trained over the Midwest during the first part of June. Copious amounts of rain fell from Iowa east across central Indiana. As a result, the Wabash and White Rivers rose above flood stage in southwest Indiana.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

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	06/20/10 11:00 CST		0	Heat
	06/23/10 18:00 CST		0	

High temperatures reached the mid to upper 90's during this four-day streak of high heat indices. High humidity produced heat indices locally around 105 degrees on some afternoons. Most counties reached the 105-degree threshold for a Heat Advisory only once or twice. One county never quite reached it. A strong upper-level ridge remained quasi-stationary from the Tennessee Valley to the southern Plains through the period of heat.

KENTUCKY, Southwest

BALLARD COUNTY --- 1.3 E WICKLIFFE [36.97, -89.06], 3.5 SSW SLATER [36.98, -89.01]

06/02/10 13:12 CST	3K	Thunderstorm Wind (EG 52 kt)
06/02/10 13:17 CST	0	Source: Emergency Manager

Numerous tree limbs were blown down on Kentucky Highway 286 from one to five miles outside of Wickliffe.

BALLARD COUNTY --- 1.5 E WICKLIFFE [36.97, -89.05]

06/02/10 13:15 CST	0	Hail (1.00 in)
06/02/10 13:15 CST	3K	Source: Newspaper

A small pocket of intense hail damaged corn crops off Highway 286. The leaves of the stalks were shredded. Agricultural experts determined that the reduction in yields would be only about 10 percent because of the early stage of the crop's growth.

CALDWELL COUNTY --- 1.6 SSW PRINCETON [37.10, -87.88]

06/02/10 13:29 CST	0	Funnel Cloud
06/02/10 13:29 CST	0	Source: Trained Spotter

A funnel cloud was sighted by a trained spotter along Kentucky Highway 139 in southern Princeton.

MARSHALL COUNTY --- 0.6 WNW SCALE [36.90, -88.36]

06/02/10 14:06 CST	0	Hail (0.88 in)
06/02/10 14:06 CST	0	Source: Emergency Manager

Nickel-size hail was reported about four miles north of Benton.

Numerous thunderstorms developed as daytime heating contributed to a strongly unstable atmosphere by early afternoon. The storms formed ahead of a weak cold front approaching southeast Missouri and southern Illinois. Isolated storms approached or briefly exceeded severe levels.

TODD COUNTY --- 1.0 S TRENTON [36.71, -87.27]

06/03/10 15:35 CST	0	Hail (1.75 in)
06/03/10 15:35 CST	0	Source: Emergency Manager

TODD COUNTY --- TRENTON [36.72, -87.27]

06/03/10 15:45 CST	6K	Thunderstorm Wind (EG 52 kt)
06/03/10 15:45 CST	0	Source: Trained Spotter

A power pole was snapped.

As strong daytime heating destabilized the atmosphere, thunderstorms developed along a zone of weak low level convergence in northeast Arkansas and western Tennessee. These storms developed northeastward into southwest Kentucky. Stronger winds aloft combined with strong instability resulted in isolated large hail and downbursts.

CHRISTIAN COUNTY --- EMPIRE [37.08, -87.50], 1.4 SW CROFTON [37.04, -87.50], 1.0 SE CROFTON [37.04, -87.47], 1.7 ENE MANNINGTON [37.14, -87.45], 0.7 WNW MANNINGTON [37.13, -87.49]

06/10/10 01:04 CST	3K	Flash Flood (due to Heavy Rain)
06/10/10 03:15 CST	0	Source: Law Enforcement

Water was up to the headlights of vehicles at the intersection of U.S. Highway 41 and County Road 800 in Crofton. High water covered some roadways in the Empire and Mannington areas. Radar estimated 3 to 5 inches of rain fell in two and one-half hours. A co-operative observer in Crofton measured a storm total of 6.97 inches.

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TODD COUNTY --- 1.3 NNE CLAYMOUR [36.90, -87.11], 1.6 SE SHARON GROVE [36.90, -87.08], 0.9 ENE SHARON GROVE [36.92, -87.08], 1.1 NNW ALLEGRE [36.94, -87.23], 1.5 SSW ALLEGRE [36.91, -87.23]				
	06/10/10 01:09 CST		0	Flash Flood (due to Heavy Rain)
	06/10/10 03:15 CST		0	Source: Law Enforcement
Up to a foot of water was on a few roadways in the Sharon Grove area. A foot of water covered Kentucky Highway 171 near Allegre, prompting its closure.				
A nearly stationary front across western Kentucky became the focus for a cluster of thunderstorms over northern Christian and Todd Counties. This cluster of storms persisted for a few hours. A co-operative observer in Crofton measured 6.97 inches.				
BALLARD COUNTY --- LA CENTER [37.07, -88.98]				
	06/15/10 15:20 CST		6K	Thunderstorm Wind (EG 52 kt)
	06/15/10 15:20 CST		0	Source: Law Enforcement
Trees were down over a city street.				
MCCRACKEN COUNTY --- ROSSINGTON [37.15, -88.83], 2.2 NNW CECIL [37.13, -88.69]				
	06/15/10 15:30 CST		2K	Thunderstorm Wind (MG 52 kt)
	06/15/10 15:35 CST		0	Source: Trained Spotter
Large tree tops up to 18 inches in diameter were blown down along Kentucky Highway 358 near Rossington. On the Interstate 24 bridge over the Ohio River, a trained spotter measured a wind gust to 60 mph.				
UNION COUNTY --- STURGIS [37.55, -87.98]				
	06/15/10 15:42 CST		8K	Thunderstorm Wind (EG 50 kt)
	06/15/10 15:42 CST		0	Source: Emergency Manager
Power lines and trees were blown down on a street.				
LIVINGSTON COUNTY --- BIRDSVILLE [37.22, -88.45]				
	06/15/10 15:55 CST		25K	Thunderstorm Wind (EG 56 kt)
	06/15/10 15:55 CST		0	Source: Public
A campground along the Ohio River at Birdsville sustained minor to moderate damage. Two camper trailers were moved off their blocks. Some awnings were blown off campers. Several trees were uprooted.				
UNION COUNTY --- MORGANFIELD [37.68, -87.92]				
	06/15/10 15:55 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/15/10 15:55 CST		0	Source: Trained Spotter
Some shingles were blown off. Tree limbs were blown down. The period of strong winds was about 10 to 15 minutes long.				
HENDERSON COUNTY --- CORYDON [37.73, -87.70]				
	06/15/10 16:05 CST		15K	Thunderstorm Wind (EG 52 kt)
	06/15/10 16:05 CST		0	Source: Newspaper
The roof and two chimneys of a house were blown off. The roof was a rubberized roof recently installed after a tornado the previous year.				
HENDERSON COUNTY --- HENDERSON [37.83, -87.58], BASKETT [37.87, -87.47]				
	06/15/10 16:10 CST		60K	Thunderstorm Wind (EG 52 kt)
	06/15/10 16:20 CST		0	Source: Trained Spotter
Multiple trained spotters estimated wind speeds of 60 mph in the Henderson area. Small trees were snapped in the city of Henderson. A wind gust to 55 mph was measured at the Henderson City-County Airport. Six power poles and some trees were down on U.S. Highway 60 near Baskett, and sections of a fence were tossed into a nearby field.				
LIVINGSTON COUNTY --- SALEM [37.27, -88.25]				
	06/15/10 16:11 CST		20K	Thunderstorm Wind (EG 52 kt)
	06/15/10 16:11 CST		0	Source: Emergency Manager
Shingles were blown off roofs.				

Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CRITTENDEN COUNTY --- 4.0 NE MARION [37.37, -88.03]				
	06/15/10 16:20 CST		0	Thunderstorm Wind (MG 60 kt)
	06/15/10 16:20 CST		0	Source: Mesonet
The Kentucky mesonet site near Marion measured a peak wind gust to 69 mph.				
MCCRACKEN COUNTY --- 1.7 W AVONDALE HGTS [37.07, -88.70], 0.3 ENE PADUCAH [37.08, -88.63]				
	06/15/10 16:50 CST		60K	Thunderstorm Wind (EG 65 kt)
	06/15/10 17:05 CST		0	Source: Emergency Manager
On U.S. Highway 60 about a mile west of Interstate 24, a 30-foot radio tower on top of a fire station was blown down. Further east on U.S. 60 in the city of Paducah, a few trees were blown down and some siding was blown off houses. Windows were blown out of a couple businesses in downtown Paducah. One of the downed trees was a large oak tree that was uprooted. An awning on a house was destroyed, and a fence was blown down. In and near downtown Paducah, large tree limbs were blown down. A four-inch limb landed on a house.				
HICKMAN COUNTY --- SPRING HILL [36.73, -88.97]				
	06/15/10 17:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/15/10 17:00 CST		0	Source: Emergency Manager
Doors on farms were damaged.				
MCCRACKEN COUNTY --- PADUCAH [37.08, -88.63]				
	06/15/10 17:10 CST		0	Heavy Rain
	06/15/10 18:10 CST		0	Source: Emergency Manager
Several streets in downtown Paducah were covered by water.				
LIVINGSTON COUNTY --- SALEM [37.27, -88.25]				
	06/15/10 17:30 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/15/10 17:30 CST		0	Source: Emergency Manager
Multiple trees were blown down in town.				
MARSHALL COUNTY --- DRAFFENVILLE [36.92, -88.33], 0.9 ESE BRIENSBURG [36.89, -88.31]				
	06/15/10 17:40 CST		18K	Thunderstorm Wind (EG 61 kt)
	06/15/10 17:50 CST		0	Source: Trained Spotter
On U.S. Highway 68 southeast of Draffenville, a small building used as a car sales office was blown off its foundation. In Draffenville, wind gusts were estimated from 60 to 65 mph. Utility lines were down.				
CHRISTIAN COUNTY --- HOPKINSVILLE ARPT [36.85, -87.45], JULIEN [36.83, -87.63]				
	06/15/10 21:45 CST		50K	Thunderstorm Wind (EG 61 kt)
	06/15/10 22:00 CST		3K	Source: Emergency Manager
West of Hopkinsville near Julien, a few large trees were blown down, including one that was snapped. One barn was destroyed along Highway 272, along with a small shed and other small outbuildings. Some corn crops were damaged. Near the Hopkinsville-Christian County Airport, a tree fell on a home. The canopy of a gas station was partially blown down in Hopkinsville. Large branches were blown down onto a few Hopkinsville streets. Power outages were sporadic. Three flags were blown down.				
CHRISTIAN COUNTY --- 3.0 NE HOPKINSVILLE [36.88, -87.44], 1.3 SSW CASKY [36.80, -87.44], 0.6 SSE JULIEN [36.82, -87.63], 3.4 WSW SINKING FORK [36.92, -87.64]				
	06/15/10 22:10 CST		20K	Flash Flood (due to Heavy Rain)
	06/16/10 02:00 CST		0	Source: Trained Spotter
In Hopkinsville, several flooded streets were impassable. Police diverted traffic from these roads. Many other city streets were under five to six inches of water and were becoming impassable. At least three homes were evacuated by the fire department when they became surrounded by floodwater. One of the evacuations became more complicated when a motorist lost control of his vehicle and ran over a safety line being used by rescuers to pull a resident from his home. Outside the city, water was over several roads. At least one road outside the city was impassable. Radar estimated two and one-half inches fell in two hours, with storm totals as much as 3 to 5 inches.				
TRIGG COUNTY --- 3.9 SSE CADIZ [36.82, -87.79], 3.6 NNE MAPLE GROVE [36.82, -87.85], 2.2 WNW CADIZ [36.88, -87.86], 1.2 ENE CADIZ [36.88, -87.80]				

Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/15/10 22:10 CST		0	Flash Flood (due to Heavy Rain)
	06/16/10 02:00 CST		0	Source: Law Enforcement

Water was over a side street in Cadiz and over Kentucky Highway 1175 south of Cadiz. Radar estimated storm total rainfall as much as 3 to 5 inches south of Cadiz.

CHRISTIAN COUNTY --- 2.9 SSE CASKY [36.78, -87.41], 1.0 E CHURCH HILL [36.80, -87.55], 1.1 ENE SINKING FORK [36.93, -87.56], 1.1 SSW DOGWOOD [36.94, -87.41]				
	06/16/10 02:00 CST		0	Flood (due to Heavy Rain)
	06/16/10 09:00 CST		0	Source: Emergency Manager

Several roads were still covered with water and barricaded in the Hopkinsville area following the flash flood.

Clusters of thunderstorms developed along a cold front as it moved east across the Mississippi Valley. As the atmosphere became very unstable due to daytime heating and hot south winds, the clusters evolved into a well-organized mesoscale convective system during the afternoon. Numerous reports of damaging winds accompanied storms within the complex as it moved southeast. The tail end of the complex stalled over the Hopkinsville area during the evening, causing a flash flood.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z014) UNION, (KY-Z018) HENDERSON, (KY-Z019) DAVIess				
	06/20/10 11:00 CST		0	Heat
	06/23/10 18:00 CST		0	

High temperatures reached the mid to upper 90's during this four-day streak of high heat indices. Along and northwest of a line from Owensboro to Murray, high humidity produced heat indices locally around 105 degrees on some afternoons. A strong upper-level ridge remained quasi-stationary from the Tennessee Valley to the southern Plains through the period of heat.

MISSOURI, Southeast

CAPE GIRARDEAU COUNTY --- 1.0 ESE GULF JCT [37.26, -89.53], 1.4 ESE GULF JCT [37.27, -89.52], 1.0 SE CAPE GIRARDEAU [37.29, -89.52], 1.1 S CAPE GIRARDEAU [37.28, -89.53]				
	06/12/10 13:00 CST		0	Flood (due to Heavy Rain)
	06/30/10 23:59 CST		7K	Source: River/Stream Gage

Moderate flooding of the Mississippi River occurred near Cape Girardeau. Low-lying fields were underwater, including some cropland. River access roads, boat ramps, and parks were flooded. The Mississippi River backed into several creeks, producing minor flooding.

Numerous storm complexes trained over the Midwest during the first part of June. Copious amounts of rain fell from Iowa east across central Indiana. As a result, the Mississippi River rose above flood stage in southeast Missouri.

BUTLER COUNTY --- 3.4 NE LONE HILL [36.73, -90.48], 1.8 SW POPLAR BLUFF [36.73, -90.43]				
	06/15/10 13:00 CST		25K	Thunderstorm Wind (EG 61 kt)
	06/15/10 13:00 CST		0	Source: Trained Spotter

On the southwest side of Poplar Bluff at the industrial park, thirteen telephone poles were down or cracked. Power was interrupted to the city wastewater treatment plant and parts of the industrial park. Roofs were blown off metal buildings in this industrial park area. On Highway M west of the industrial park, a large tree limb fell on a power line.

CAPE GIRARDEAU COUNTY --- DELTA [37.20, -89.75], (CGI)CAPE GIRARDEAU [37.23, -89.57]				
	06/15/10 13:05 CST		10K	Thunderstorm Wind (MG 61 kt)
	06/15/10 13:15 CST		0	Source: Emergency Manager

Six medium-size trees were blown down in Delta. A wind gust to 70 mph was measured at the Cape Girardeau airport ASOS (automated surface observing system). Over 1,000 people lost power in Chaffee.

SCOTT COUNTY --- 0.3 NW ANCELL [37.22, -89.55], 1.0 SSE ANCELL [37.21, -89.54]				
	06/15/10 13:15 CST		10K	Thunderstorm Wind (MG 61 kt)
	06/15/10 13:15 CST		0	Source: ASOS

A wind gust to 70 mph was measured by the automated observing system at the Cape Girardeau airport on the Scott/Cape Girardeau County line. On Interstate 55 about two miles south of the airport, a semi was blown over in the southbound lanes at the 87-mile marker. The overturned semi blocked one lane of the interstate.

Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Clusters of thunderstorms developed along a cold front as it moved east across the Mississippi Valley. As the atmosphere became very unstable due to daytime heating and hot south winds, the clusters evolved into a well-organized mesoscale convective system during the afternoon. Numerous reports of damaging winds accompanied storms within the complex as it moved southeast.

(MO-Z114) NEW MADRID

06/16/10 11:00 CST	2	0	Heat
06/16/10 16:00 CST		0	

An upper-level ridge over the Mississippi Valley contributed to unseasonably hot and humid conditions. Highs were in the lower 90's. Twin two-year-old girls were found dead in a hot car at an apartment complex in Portageville. All the car windows were rolled up. The heat index at Blytheville, Arkansas was 101 degrees when the girls probably entered the car while their guardians were napping. The coroner's report showed the cause of death was heat-related.

Direct Fatalities: F2VE

MISSISSIPPI COUNTY --- CHARLESTON [36.92, -89.33]

06/17/10 11:15 CST		0	Heavy Rain
06/17/10 12:45 CST		0	Source: Newspaper

Local streets were flooded. A motorist stalled in the floodwaters. The car was pushed out of the water.

A mesoscale convective system over southern Illinois and east central Missouri intensified as it moved southeast through a destabilizing atmosphere. The focus for the convective system was a quasi-stationary front from north central Missouri across the southern tip of Illinois to western Kentucky.

(MO-Z076) PERRY, (MO-Z087) CAPE GIRARDEAU, (MO-Z111) SCOTT

06/18/10 12:00 CST		0	Heat
06/18/10 18:00 CST	5	0	

Temperatures rose into the lower to mid 90's during the afternoon. High humidity levels resulted in peak heat indices around 105 degrees in some areas, mainly from the Cape Girardeau area north. Five people were treated for heat-related illnesses at a Sikeston medical center. Surface high pressure over the central Appalachians and a surface low over the central Plains produced a hot and humid south wind flow.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

06/20/10 11:00 CST		0	Heat
06/23/10 18:00 CST	6	0	

High temperatures reached the mid to upper 90's during this four-day streak of high heat indices. The heat caused a few instances where pavement buckled on state highways, as well as several streets in Poplar Bluff. There were several pavement blowups on Highway 25 between Dexter and Bloomfield. A medical clinic reported an increase in heat-related illnesses. A manufacturing plant in Poplar Bluff dismissed its 260 workers early due to the high heat and humidity. High humidity produced heat indices locally around 105 degrees on some afternoons. While one county reached the 105-degree threshold for a Heat Advisory each afternoon, most reached it only once or twice. A strong upper-level ridge remained quasi-stationary from the Tennessee Valley to the southern Plains through the period of heat. Dry weather associated with the ridge, combined with the heat, caused farmers to begin irrigating their fields earlier than usual.

BUTLER COUNTY --- 2.0 SW NEELYVILLE [36.55, -90.53]

06/26/10 19:24 CST		0	Funnel Cloud
06/26/10 19:24 CST		0	Source: Law Enforcement

A funnel cloud was reported over fields in a rural area.

An isolated thunderstorm developed in a highly unstable air mass with weak vertical wind shear. Mid-level winds were very light due to the presence of a ridge aloft. Surface winds were from the southwest, providing heat and moisture to the storm.